

Program Description/Textbook or Print Instructional Material

Vendor: Pearson Education, Inc., publishing as Pearson Prentice Hall **Web Address:** www.phschool.com

Title: Technical Drawing

Author: Frederick E. Giesecke **Copyright:** 2003

ISBN: 0-13-183695-1 **Course/Content Area:** Drafting/Computer Assisted Design Technology

Intended Grade or Level: 9-12 **Readability Level:** 8.7 Modified Dale-Chall

List Price: \$ 103.29 **Lowest Wholesale Price:** \$ 77.47

Level of Accommodations (Level One, Two, or Three) Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance. Pearson Prentice Hall is unable to provide files in Levels One or Two due to the variety of page layout systems used to create the text. These systems are not compatible with specialized formats such as XML or HTML.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

This authoritative text offers the best coverage of basic graphic principles and an unmatched set of fully machinable working drawings. Its practical, well illustrated, step-by-step explanations of procedures keep students focused and stimulated. The content has been updated throughout with 100 new drawing problems, a 4 color signature of key drawing techniques/illustrations, a new edition of Engineering Drawing Series 3 Workbook with CAD problems. Each copy comes with "Semester" SolidWorks 15 week license. A companion Website provides additional material.

Student Experiences

Students using these materials will find that technical drawing is fun and exciting, as well as easy with the step-by-step procedures used in the text. They will find the drawings and exercises relevant to the topics being discussed and easy to understand. The Web also contains four valuable reference chapters.

Assessment

Assessment is built into the materials as students use the procedures and find out how practical it is to follow. These procedures have been used to train students successfully for 60 years and visually oriented students continue to find the materials exciting and assessment therefore is successful.

Organization

The text is organized into 25 chapters that take the student from the basics to the advanced concepts of technical drawing. Reference chapters are also provided as well as a Glossary of Terms, and an Online Syllabus Builder for the Instructor.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free upon request, 1 per teacher user with a minimum purchase of 20 Technical Drawing Student Editions:

- ☞ Instructor's Manual
- ☞ Instructor's CD-ROM
- ☞ Engineering Drawing Problem Series 3
- ☞ Engineering Drawing Problem Series 1
- ☞ Engineering Drawing Problem Series 2

- **Available Ancillary Materials**

Website: www.prenhall.com

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

The text and ancillaries have been reviewed carefully by technical drawing teachers and other professionals in the field. They have reviewed the content thoroughly over its many revisions and have revised the materials to meet the needs of students and how they will work on the job.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Technology Education



Title: Technical Drawing \$77.47			
Publisher: Prentice Hall			
Item Evaluated: Text, Insturctor Resource CD, Instructor's Manual			
Copyright Date: 2003		Evaluator: Kay Turner	
Content Level: 9-12		Date of Evaluation 7/30/03	
Level of Alternative Format	Level 1 – Full Compliance	Level 2 – Provisional Compliance	Level 3 – Marginal Compliance
This section completed by Exceptional Children Services			

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:
<input checked="" type="checkbox"/> Recommended by reviewers to State Textbook Commission
<input type="checkbox"/> Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
Technology Education**



Title: Technical Drawing		Publisher Prentice Hall
Technology Management Summary Data:	20 possible points	___ 18___ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	40 possible points	___ 33___ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	20 possible points	___ 20___ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	___ 47___ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	___ 27___ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	___ 23___ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form

Stand Alone/Independent or Integrated Software for Technology Education



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	____x__single copy	____site license
Macintosh	Intermediate	Small Group	Integrated	____network version	____school version
CD-ROM	Middle	Large Group	Supplemental	____lab pack of ____ copies	____online
DVD	High		In lieu of basal test		
Sound					
Other					

If other, explain

Type of Software: Check all that apply	____x__Simulation	____Management	____Interdisciplinary	____x__Problem Solving	____x__Tutorial
____x__Exploratory	____Creativity	____x__Drill and Practice	____Critical Thinking	____Utility	____Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	4
Allows students to exit and resume at a later time.	3
Keeps a students performance record, where needed.	3
Allows control of various aspects of the software (e.g., turning sound off).	4
Allows for printed reports.	4
Comments:	Total
Trouble with automation Section	18

Presentation/Interface	Rating
Presents material in an organized manner.	4
Has consistent, easy-to-use, on-screen instructions.	3
Has developmentally correct presentation format.	3
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	4
Accessible for special needs students.	3
Runs smoothly, without long delays.	3
Presents easy-to-view text and graphics.	3
Presents easy-to-hear and understand sounds.	3
Avoids unnecessary screens, sounds, and graphics.	3
Provides immediate, appropriate feedback.	4
Comments:	Total
	33

Content—Technology Education	Rating
Nature of Technology	4
Technology and Society	4
Design	4
Abilities for a Technological World	4
The Design World	4
Comments:	Total 20

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	3
Engages Students	4
Develops Technology Ideas	4
Promotes Student Thinking	4
Assesses Student Progress	4
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	3
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	3
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	3
Differentiation techniques and activities suggested.	3
Comments:	Total 47

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	2
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	2
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	2
Student materials seem durable and conducive to daily use.	3
Includes sufficient glossary, index and appendices.	3
Employs accurate grammar and spelling	3
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 27

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	3
Extension activities including adaptations and accommodations for students with special needs.	1
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	3
Suggestions are made for integration of themes and /or interdisciplinary instruction.	3
Integration opportunities suggested and examples given.	2
Teacher resources are available online.	3
Online resources available – Repeat of information in text.	0
Online resources available – Practice skills only.	0
Online resources available – New application materials.	4
Comments:	Total 23

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable